

5A CC&CV Buck Step-Down Power Module

Applications

Use as an ordinary step-down modules with overcurrent protection capabilities

Instructions

1. This regulation potentiometer, the output voltage reaches the voltage value you want
2. 10A current with a multimeter measuring the output short-circuit current file (directly to the two can lead to the output), and adjust the constant current potentiometer allows the output current reaches a predetermined overcurrent protection value. (Such as the current value displayed on the multimeter is 4A, then you can use the module to a maximum current of 4A, 4A current to the constant voltage constant current when the red indicator light, otherwise light off)

Note: When used in this state, since the output of 0.05 ohm current sense resistor, there will be 0 ~ 0.3V voltage drop after the connected load, this is normal! This drop is not being pulled down your load, but down-sampling resistor.

Use as a battery charger

Without constant function module cannot be used to charge the battery, since the complete consumption of electric battery and charger big difference between charging current is too large, resulting in damage to the battery, so start to the battery using a constant current charging, when charging to a certain extent automatically switch back to constant voltage charging.

Instructions

1. determine that you need to recharge the battery float voltage and charging current; (lithium parameters if 3.7V / 2200mAh, then the float voltage is 4.2V, the maximum charging current 1C, namely 2200mA)
2. under no-load conditions, the multimeter to measure the output voltage, the constant voltage potentiometer to adjust the output voltage reaches the float voltage; (if to 3.7V rechargeable lithium battery, the output voltage can be adjusted to 4.2V)
3. with a multimeter 10A current range measuring output short-circuit current (directly to the two can lead to the output), and adjust the constant current potentiometer allows the output current reaches a predetermined charge current value;
4. Charge turn lamp current factory default is 0.1 times the charging current; (Battery during charging current is gradually reduced, gradually converted to constant voltage charging by the constant current charging, if the charging current setting is 1A, then when the charge current is less than 0.1A, blue lights turned off, the green light is on, then the battery is fully charged)
5. Connected to the battery charge.

(1,2,3,4 steps as: input termination power, the output of load cell is not connected)

Use a high-power LED constant current driver module

1. determine that you need to drive the LED operating current and the maximum operating voltage;
2. no-load condition, the multimeter to measure the output voltage, the constant voltage potentiometer to adjust the output voltage reaches the LED maximum working voltage;
3. 10A current with a multimeter to measure the output short-circuit current gear while adjusting the constant current potentiometer allows the output current reaches a predetermined LED operating current;
4. Connected to the LED, the test machine.

(Steps 1 through 3 are: power supply input connected to the output load is not connected LED lights.)

Note

- This module is more than 3A, 35W in use, to enhance heat dissipation! ! !

LED Status

- Red - CC&CV status LED, constant current ON, constant voltage OFF
- Blue - On when charging, and off when charged
- Green - On when charged